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# SERVICE INSTRUCTION

DATE: December 15, 2009

Service Instruction No. 1528
Engineering Aspects are
FAA (DER) Approved

SUBJECT: Aircraft Engine Starter Recommendations

MODELS AFFECTED: All Lycoming direct drive engines.

Periodically aircraft engine starters are returned to Lycoming Engines as inoperative. Further research has shown that some of the returned starters have failed by overheating. Overheating is usually induced by an excessive duration of time used for the starting attempt (commonly referred to as a "crank") and an excessive number of starting attempts which are not within a designated time period (commonly referred to as a "duty cycle").

**When using only an aircraft battery:**

Unless otherwise stated in the original aircraft manufacturer's manual (AMM), pilot's operating handbook (POH), or original starter manufacturer's information tag and/or operation manual, Lycoming recommends the following starting procedure when using only an aircraft battery:

- Crank for no more than 10 seconds, then allow 20 seconds to cool down.
- Repeat up to 6 times, and then allow the starter to cool for 30 minutes before attempting additional starts.

**When using a ground power unit (GPU):**

See the original starter manufacturer's operation manual for the proper starting procedure when using a GPU.

NOTE

If a "no-start" condition is experienced after either aforementioned procedure, refer to the latest revision of the applicable AMM, POH, Lycoming Operator's Manual or Operation and Installation Manual for additional engine starting troubleshooting procedures.

General Aviation Manufacturers Association

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